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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-07-23-01** **Date: 31-07-2016**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and Gym at yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-16
Sample ID No	:	2016-07-23-01/02(a)
Sample Type/ Size	:	20mm and down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	24-07-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	80	80	1.6	98.4	95-100
3	10 mm	2835	2915	58.3	41.7	25-55
4	4.75 mm	1930	4845	96.9	3.1	0-5
5	Pan	155	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-07-23-01** **Date:31-07-2016**

Sample ID No : 2016-07-23-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	8.2	–
2	Elongation Index(%)	10.7	–
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.57	–
5	Bulk Density(Compacted) (Kg/l)	1.64	–
6	Water Absorption(%)	0.17	–
7	Ten percent fine value(KN)	148.5	–
8	Aggregate crushing Value(%)	23.0	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	24.0	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Technical Manager

End of Report

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2016-07-23-01** **Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and Gym at yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-16
Sample ID No	:	2016-07-23-01/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	24-07-16

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum	Avg.Block Density in (Kg/cum) *10^6	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	202	200	16281	32.710	2009.1	2011.1	Not less than 1800Kg/m^3
2	404	203	202	16566	33.160	2001.6		
3	402	201	201	16241	32.85	2022.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.260	33.370	2.67	2.84	Shall not be more than 10% by mass
2	33.880	32.920	2.92		
3	33.610	32.650	2.94		

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Lab ID : **CP-2016-07-23-01** **Date: 29-07-16**

Sample ID No : 2016-07-23-01/04

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	201	
2	403	201	199	
3	402	203	201	
4	403	202	202	
5	404	201	201	
6	402	200	203	
7	401	201	201	
8	402	201	200	
9	402	202	198	
10	401	201	201	
11	400	202	203	**Length : ± 5mm**
12	403	200	200	**Breadth : ± 3mm**
13	403	202	203	**Height : ± 3mm**
14	404	203	201	
15	401	201	202	
16	403	202	202	
17	402	199	201	
18	402	203	203	
19	403	201	201	
20	402	201	202	
Average of 20 blocks	**402**	**201**	**201**	

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Lab ID : **CP-2016-07-23-01** **Date: 29-07-16**

Sample ID No : 2016-07-23-01/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	202	81002	337.3	4.2	4.4
2	403	201	81003	372.1	4.6	
3	402	203	81606	302.9	3.7	
4	403	202	81406	352.7	4.3	
5	404	201	81204	382.8	4.7	
6	402	200	80400	301.1	3.7	
7	401	201	80601	393.2	4.9	
8	402	201	80802	392.4	4.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Prepared by
Harshitha

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Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-07-23-01** **Date: 29-07-16**

Customer : Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.

Address : Project Yelahanka, BBMP, Bangalore.

Project Name : Construction of Sammudhaya Bhavana and Gym at Yelahanka old town in Ward No-01

Agency : Sri K. Gopi Reddy

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-16

Sample ID No : 2016-07-23-01/03

Sample Type : M.Sand

Reference to BIS codes : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation

Date of test : 23-07-16

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	60	60	6.0	94.0	90-100	90-100	90-100	95-100
3	2.36 mm	47	107	10.7	89.3	60-95	75-100	85-100	95-100
4	1.18 mm	78	185	18.5	81.5	30-70	55-90	75-100	90-100
5	600 micron	153	338	33.8	66.2	15-34	35-59	60-79	80-100
6	300 micron	335	673	67.3	32.7	5-20	8-30	12-40	15-50
7	150 micron	257	930	93.0	7.0	0-10	0-10	0-10	0-15
8	Pan	70	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone III

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-07-23-01** **Date: 29-07-16**

Sample ID No : 2016-07-23-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.6	_
2	Specific Gravity	2.6	_
3	Material finer than 75 micron(%)	7.2	Not more than 15 percent

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Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-07-23-01** **Date: 22-08-2016**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and Gym at Yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-16
Sample ID No	:	2016-07-23-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-07-2016 to 20-08-2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving	3.65%	–
2	Finess by Air permeablity method	294.2 m^2/kg, Min	225m^2/kg, Min
3	Density	3.39 gm/cc	–
5	Standard Consistency	28.5%	Not specified
6	Initial Setting time	245 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-07-23-01** **Date: 22-08-2016**

7	Final Setting time	305 minutes	Not more than 600 minutes
8	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
9	Compressive Strength		
	3 Days	28.5 N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0 N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5 N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Technical Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-07-23-01** **Date:31-07-2016**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and Gym at yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-07-16
Sample ID No	:	2016-07-23-01/02(b)
Sample Type	:	40mm and down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	24-07-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	190	190	3.8	96.2	95-100
3	20 mm	3195	3385	67.7	32.3	30-70
4	10 mm	905	4290	85.8	14.2	10-35
5	4.75 mm	640	4930	98.6	1.4	0-5
6	Pan	70	5000	100	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-07-23-01** **Date:31-07-2016**

Sample ID No : 2016-07-23-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**11.1**	_
2	Elongation Index(%)	**10.5**	_
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.49**	_
6	Water Absorption(%)	**0.2**	_

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01**	**Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.	
Address	:	Project Yelahanka, BBMP, Bangalore.	
Project Name	:	Construction of Samudhaya Bhavana and gym at Yelahanka old town in Ward No-01	
Agency	:	Sri K. Gopi Reddy	
Source of Sample	:	Sample Supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-07-16	
Sample ID No	:	2016-07-25-01/01(a,b,c)	
Sample Type	:	Indus , Fe500	
Reference to BIS codes	:	IS 1786-2008	

Date of test: : 26-07-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.393	548	671	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01** **Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and gym at Yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample Supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-16
Sample ID No	:	2016-07-25-01/02(a,b,c)
Sample Type	:	Indus , Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	26-07-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.614	553	664	20.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01** **Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and gym at Yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample Supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-16
Sample ID No	:	2016-07-25-01/03(a,b,c)
Sample Type	:	Indus , Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	26-07-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	12mm	0.888	579	682	21%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	12mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01** **Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
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Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample Supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-16
Sample ID No	:	2016-07-25-01/04(a,b,c)
Sample Type	:	Indus , Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	26-07-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	16mm	1.532	592	708	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	16mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01** **Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and gym at Yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample Supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-16
Sample ID No	:	2016-07-25-01/05(a,b,c)
Sample Type	:	Indus , Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	26-07-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	20mm	2.451	619	721	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	20mm	Satisfactory	Satisfactory

Note

The results pertain to the samples received and tested.
Any correction in the report will make this report invalid.
All information furnished by Customer/ Representative
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Technical Manager

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY STRUCTURAL
GEO TECHNICAL PROJECT MANAGEMENT SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01** **Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.
Address	:	Project Yelahanka, BBMP, Bangalore.
Project Name	:	Construction of Samudhaya Bhavana and gym at Yelahanka old town in Ward No-01
Agency	:	Sri K. Gopi Reddy
Source of Sample	:	Sample Supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-16
Sample ID No	:	2016-07-25-01/06(a,b,c)
Sample Type	:	Indus , Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	26-07-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	25mm	3.832	628	711	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	25mm	Satisfactory	Satisfactory

Note

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GEO TECHNICAL PROJECT MANAGEMENT SURVEYING SERVICES

TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-07-25-01**	**Date: 29-07-16**
Customer	:	Assistant Exicutive Engineer, Project Yelahanka, BBMP, Bangalore.	
Address	:	Project Yelahanka, BBMP, Bangalore.	
Project Name	:	Construction of Samudhaya Bhavana and gym at Yelahanka old town in Ward No-01	
Agency	:	Sri K. Gopi Reddy	
Source of Sample	:	Sample Supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-07-16	
Sample ID No	:	2016-07-25-01/07(a,b,c)	
Sample Type	:	Indus , Fe500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	26-07-16	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	32mm	6.301	602	710	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	32mm	Satisfactory	Satisfactory

Note

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